

Student Name:

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- 1- To which modulation technique this rule is applied

a. FSK
 b. ASK
 c. AM
 d. FM

$$s(t) = \begin{cases} A \cdot \sin(2\pi ft), & \text{binary 1} \\ 0 & \text{binary 0} \end{cases}$$

- 2- In digital-to-digital modulation one of the characteristics is changed according to the

a. Modulating signal, modulated signal
 b. Modulated signal, modulating signal
 c. Carrier signal, modulated signal
 d. Carrier signal, modulating signal

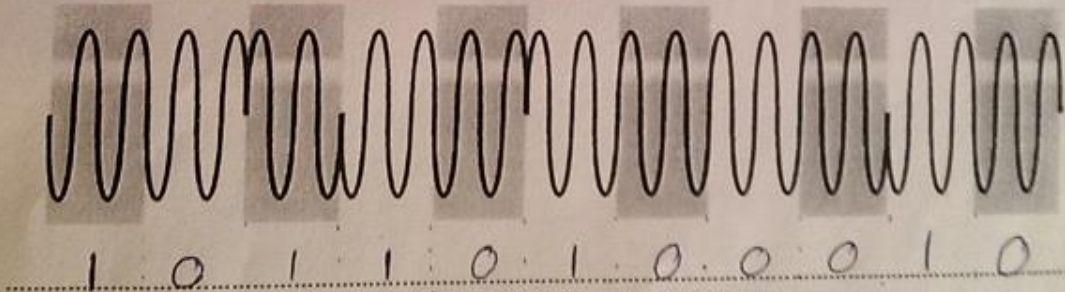
- 3- For an analog signal, with range of frequencies between 4000 and 8000 Hz, to be encoded into digital using PCM, the required sampling rate is Sample per second.

a. 6000
 b. 8000
 c. 1200
 d. 1600

- 4- A PCM system with 32 quantization levels is having bits per PAM.

a. Three
 b. Four
 c. Five
 d. Six

- 5- Consider the following Differential PSK, if the first bit is binary 1, find out the full bit stream



- 6- Re-represent the string retrieved in question 5 above in BASK

